



iNSTALLING WINDOWS® 7 ON HP BUSINESS NOTEBOOKS

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Introduction

In July of 2009, Microsoft released Windows 7 to manufacturing (RTM). This is the replacement for Windows Vista®, although both versions will be available for a period of time. Windows Vista was launched in late 2006 with preinstall availability in January of 2007.

Purpose

This white paper provides instructions on how to install Microsoft® Windows 7 on select HP Business notebooks. Windows 7 will be released for general availability on October 22nd of 2009. Pre-release operating systems are not supported on HP business notebooks. The following guidelines provide installation procedures independent of the currently installed operating system.

Audience

This white paper is for use by HP personnel and clients evaluating Windows 7.

System Requirements and prerequisites

The following represents a list of requirements and HP Business Notebook models recommended for use with Windows 7 RTM.

Minimum Requirements from Microsoft

- 1 GHz 32-bit (x86) or 64-bit (x64) processor
- 1 GB System Memory for 32-bit or 2 GB System Memory for 64-bit
- Graphics adapter with WDDM driver and 128MB of memory
 - All models listed below have WDDM 1.1 video drivers available
- 16 GB available hard disk space (32-bit) or 20 GB (64-bit)
- DVD-RW drive
- Windows XP Mode requires an additional 1 GB of RAM, an additional 15 GB of available hard disk space, and a processor capable of hardware virtualization with Intel VT or AMD-V turned on
- **HP recommends** a 1.5GHz or faster CPU, 2GB of system memory, graphics adapter with a WDDM 1.1 driver and an 80 GB 5400 RPM hard drive with at least 20GB available

Applicable 2007 models

- HP Compaq 2510p Notebook PC
- HP Compaq 2710p Notebook PC
- HP Compaq 6910p Notebook PC
- HP Compaq 8510p Notebook PC
- HP Compaq 8510w Mobile Workstation
- HP Compaq 8710p Notebook PC
- HP Compaq 8710w Mobile Workstation
- HP Compaq 6510b Notebook PC
- HP Compaq 6515b Notebook PC
- HP Compaq 6710b Notebook PC
- HP Compaq 6715b Notebook PC

Applicable 2008 models

- HP EliteBook 2530p Notebook PC
- HP EliteBook 2730p Notebook PC
- HP EliteBook 6930p Notebook PC
- HP EliteBook 8530p Notebook PC
- HP EliteBook 8530w Mobile Workstation
- HP EliteBook 8730w Mobile Workstation
- HP Compaq 6530b Notebook PC
- HP Compaq 6730b Notebook PC
- HP Compaq 6535b Notebook PC
- HP Compaq 6735b Notebook PC

IMPORTANT

If you select to format or repartition your drive, this process will delete all files on the target system.

WARNING: IF YOU DO NOT BACK UP YOUR DATA BEFORE PROCEEDING, YOUR PERSONAL DATA COULD BE LOST. BEFORE YOU PROCEED, back up all personal data (files, pictures, etc.) -prior to installing Microsoft Windows 7. Windows Easy Transfer can be used to back up files and settings. Additional information on Windows Easy Transfer is available from the Microsoft website at [http://technet.microsoft.com/en-us/library/dd446674\(W5.10\).aspx](http://technet.microsoft.com/en-us/library/dd446674(W5.10).aspx).

Prerequisites

You will need the following before installing Windows 7:

- An applicable system
 - Microsoft Windows 7 DVD
 - Media or external drive for backup
 - Internet access
-

IMPORTANT

This document does not provide a license to create and/or distribute an operating system image. This document is intended to be a technical resource for those who have the proper license to evaluate the Windows 7 operating system. The operating system license shipped with HP PCs does not grant re-imaging and deployment rights. Before using the document to deploy an image, please contact your Microsoft licensing representative to obtain the proper license agreements. HP cannot be held liable if a customer uses this document to create or deploy an image that violates Microsoft license agreements.

Installing the operating system and drivers

This section provides guidelines for users who perform a clean installation of or upgrade to Microsoft Windows 7. Upgrades from Windows XP will require a clean install. Applications will need to be reinstalled with a clean install. The Windows 7 Upgrade Advisor can be used to determine application and peripheral hardware compatibility. For additional information on the Windows 7 Upgrade Advisor, visit the Microsoft website at <http://www.microsoft.com/windows/windows-7/get/upgrade-advisor.aspx>.

IMPORTANT

Upgrade the system ROM to the latest version before beginning OS installation.

Clean installing the operating system

Perform the following steps when installing Windows 7

1. Change the boot order in F10 Setup to make the optical drive the first boot device.
2. Insert the OS DVD and power on the system.
3. Follow the on-screen instructions for operating system installation.
 - a. You must hit a key shortly after powering on the system in order to boot from the Windows 7 DVD.
 - b. Select Custom Install to perform a clean install.
 - c. If you reformat or repartition your drive, all data will be lost. Otherwise, data will be archived in the c:\windows.old folder.
4. Connect to the Internet and download the latest drivers and enhancements from Microsoft Windows Update.
 - a. See Driver Tables for additional information.
5. Restore data and reinstall applications
 - a. Data can be copied from c:\window.old if the drive was not repartitioned or reformatted during installation.

Upgrading to Windows 7 from Vista

Upgrades, which will generally retain data and compatible applications, are supported between like editions of Windows Vista and Windows 7. Windows Vista Business can be upgraded to Windows 7 Professional, but Windows Vista Ultimate cannot be “upgraded” to Windows 7 Home Premium. Perform the following steps when installing Windows 7.

1. Power on the system and boot to Windows Vista.
2. Run Windows Update and install the latest updates.
3. Insert the Windows 7 OS DVD and run setup.exe.
4. In order to determine the compatibility of currently installed applications and peripheral hardware, run the Windows 7 Upgrade Advisor by clicking Check compatibility online.
 - a. Select your language settings
 - b. While connected to the internet, click Check compatibility online.
 - c. Review the report to determine additional steps required prior to starting the upgrade process
 - i. Failure to follow the recommendations may impact performance of Windows 7
5. Follow the on-screen instructions for operating system installation.
 - a. Select upgrade in order to retain installed applications and data.
6. Connect to the Internet and download the latest drivers and enhancements from Microsoft Windows Update.
 - a. See Driver Tables for additional information.
7. Install updated applications, as necessary.

Driver availability

Drivers for key subsystems are available with Windows 7 or from Windows Update, including video, audio, modem, NIC, wireless LAN, Bluetooth, flash media reader and pointing devices. In October of 2009, HP will post driver updates for select supported models at www.hp.com/go/support.

	Video	Audio	Modem	NIC	Wireless LAN	Bluetooth	Smart Card	TPM Module
2510	✓	✓	✓ *	✓	✓	✓	✓ *	✓
2710	✓	✓	✓	✓	✓	✓	✓ *	✓
6910	✓ *	✓	✓	✓	✓	✓	✓ *	✓
8510	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
8710	✓ *	✓	✓	✓	✓	✓	✓ *	✓
6510	✓	✓	✓ *	✓	✓	✓	✓ *	✓
6515	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
6710	✓	✓	✓ *	✓	✓	✓	✓ *	✓
6715	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
2530	✓	✓	✓ *	✓	✓	✓	✓	✓
2730	✓	✓	✓ *	✓	✓	✓	✓	✓
6930	✓	✓	✓ *	✓	✓	✓	✓ *	✓
8530	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
8730	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
6530	✓	✓	✓ *	✓	✓	✓	✓	✓
6535	✓	✓	✓ *	✓	✓	✓	✓	✓
6735	✓	✓	✓ *	✓	✓	✓	✓	✓
6730	✓	✓	✓ *	✓	✓	✓	✓	✓

Note: Driver availability is subject to change.

- ✓ - Driver included in Windows 7
- ✓ * - Driver available from Windows Update

Appendix A: Known Anomalies

This is a partial list of anomalies observed during Windows 7 testing.

Unrecognized devices in Device Manager

Anomaly: Several devices aren't recognized after installing Windows 7

Description: Base System Device, Fingerprint Sensor, PCI Serial Port, PCI Simple Communications Controller, and Unknown devices lack drivers in Device Manager.

Affected Systems: All models

Resolution: Run Windows Update. After Windows Update is run, PCI Serial Port and Simple Communications Controller will remain under "Other Devices". AMT, Quick Launch Button and HP 3D DriveGuard drivers are not available from Windows Update.

3D DriveGuard does not function

Anomaly: Hard drive does not park when the system is dropped with Windows 7

Description: Windows 7 Drivers for HP 3D DriveGuard are not currently available.

Affected Systems: All models

Resolution: Windows 7 is set to Sleep on lid close by default, which will park the hard drive. Updated HP 3D DriveGuard software will be available from hp.com in October for supported models.

Appendix B: Questions and Answers

Will my 2710p run Windows 7?

Yes. Supported 2007 and 2008 models with at least 1 GB of RAM (2 GB recommended) and adequate available drive space will run Windows 7 32-bit.

Will my 2710p work with the Aero user interface?

Yes. Windows 7 display drivers are available for all supported 2007 and 2008 UMA and discrete models either with Windows 7 or from Windows Update.

How many different versions of Windows 7 does Microsoft plan to release?

Six versions - Ultimate, Enterprise, Professional, Home Premium, Home Basic and Starter Edition. All but Starter Edition are available in both 32 and 64 bit. Version availability may vary by country.

Are 32 and 64 bit versions of Windows 7 identical?

No, 64 bit Windows 7 is different than 32 bit. Application compatibility levels and device support will vary between the 32 and 64 bit versions. Windows XP Mode is available for Windows 7 Professional for those who need XP compatibility for legacy application support.

I currently use Windows XP Professional. Which version of Windows 7 should I buy?

If you are purchasing Windows XP Professional or Windows XP Tablet Edition today, purchase Windows 7 Professional, which provides equivalent functionality at a similar price.

How do I check my software and hardware for Windows 7 compatibility?

All of the models listed in this white paper will be supported with Windows 7 at Microsoft's launch in October. The Windows 7 Upgrade Advisor is available for download from the Microsoft website. This utility will check installed software and attached hardware for compatibility and generate a report. This report will provide recommended actions to improve your computability with Windows 7.

What should I use to backup my files?

Windows Easy Transfer can be used in order to capture your files and settings. This utility is included with Windows Vista. It is available for download for customers who are using Windows XP from the Microsoft website. Optical media, such as blank CD-Rs or BD-Rs, or an external hard disk drive will be required.

How do I transfer my files from my old PC with XP to my new PC with Windows 7?

Windows Easy Transfer is the easiest method by which to transfer files and settings. It is available for download for customers who are using Windows XP from the Microsoft website. For more information, go to the Microsoft website at <http://www.microsoft.com/downloads/details.aspx?FamilyId=2B6F1631-973A-45C7-A4EC-4928FA173266&displaylang=en>.

I have Windows Vista Ultimate installed. Can I upgrade to Windows 7 Professional?

No, you must use a similar version or higher version. You cannot move to a lower function version when moving from Windows Vista to Windows 7, nor can you change language when upgrading to Windows 7.

For more information

To learn more about HP business notebooks, contact your local HP sales representative or visit our Web site at: <http://www.hp.com/go/notebooks>



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